

## ABSTRACT

A method for carrying out channel equalization in a radio receiver wherein an impulse response is estimated, noise power is determined by estimating a covariance matrix of the noise contained in a received signal before prefiltering,

5 and tap coefficients of prefilters and an equalizer are calculated. The method comprises determining the noise power after prefiltering by estimating a noise covariance matrix, after which input signals (416, 418) of the channel equalizer are weighted by weighting coefficients obtained from the noise covariance estimation.

10 (Figure 4)

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